Claims

1. Abrasion-resistant particles (1) that are coated with an adhesion promoter which is preferably dry.

2. Abrasion-resistant particles (1) according to claim 1 having a diameter of 50 to 200 μm, preferably of 90 to 130 μm.

3. Abrasion-resistant particles (1) according to claim 1 or 2 that are coated with a silane adhesion promoter, preferably with an amino-silane adhesion promoter.

4. Abrasion-resistant particles (1) according to one of the preceding claims that consist of silicon carbide, preferably of aluminum oxide, particularly preferably of corundum.

5. Method for the production of abrasion-resistant particles (1) according to one of the preceding claims, wherein the abrasion-resistant particles (1) are provided with a liquid consisting entirely or substantially of the adhesion promoter.

6. Method according to the preceding claim, wherein the abrasion-resistant particles (1) that are provided with a liquid are dried.

7. Method for the production of a paper (7) having an abrasion-resistant surface, wherein the paper is impregnated with resin, the abrasion-resistant particles (1) having the features according to one of the claims 1 to 4 are sprinkled onto the paper, and the resin (11) is hardened, namely preferably by pressing with a further impregnated paper (10) or with fibers and resin while heat is supplied.

8. Paper (7) according to the preceding claim which has a weight of 20 to 200 g/m^2, preferably up to 60 g/m^2, particularly preferably 25 to 40 g/m^2, wherein the interior of the paper (7) is preferably filled with acrylate or an acrylate-containing dispersion and wherein the paper (7) can preferably be produced according to one of the claims 7 or 8.

9. Paper according to one of the two preceding claims, in particular decorative paper (7) which is pressed with an overlay (10) or fibers, wherein the abrasion-resistant particles (1) are located between the paper (7) and the overlay (10) and/or the fibers.

10. Paper according to one of the three preceding claims wherein the abrasion-resistant particles (1) lie in a plane.

11. Paper (7) according to one of the four preceding claims which is impregnated with a resin mixture containing an amino resin as well as a further resin, namely in particular a urea resin, and which is provided with a décor, the paper preferably being pressed with overlay (10) or fibers, the overlay or the fibers being impregnated with a pure amino resin.

12. Laminate panel having a paper (12) according to one of the five preceding claims, wherein paper (12) is applied on a base board (13) which in particular consists of a derived timber product such as HDF or MDF, and the opposing side of the base board (12) is preferably provided with a backing paper (14) which in particular has a weight of 20 to 60 g/m^2.

13. Laminate panel according to the preceding claim comprising laterally mounted coupling elements (15, 16) such as groove and tongue, as well as further coupling elements, so that two laminate panels can be connected with each other both in a perpendicular direction relative to the surface of the panel, as well as parallel relative to the surface of the panel.

14. Laminate panel according to one of the two preceding claims, wherein the backing paper (14) is provided with a urea resin.

15. Device for producing a paper according to one of the preceding claims relating to a paper, comprising means for sprinkling abrasion-resistant particles onto the paper, in particular comprising a rotatable roller (2) having cavities and a brush (5) located laterally next to the roller, which is arranged such that the cavities can be brushed out, as well as means (8, 9, 8', 9') with which a paper web can be moved along underneath the roller.